

QY	1832	TTGGCTTCTAAATCAAAAGCTTTTAAACCCCTATTGGTAAAGAAATGGAAGGTGGAGAAGCTCC	1891
DB	352	TTTGGCTTCTAAATCAAAAGCTTTTAAACCCCTATTGGTAAAGAAATGGAAGGTGGAGAAGCTCC	293
QY	1892	CTGAAGTAAGCAAAAGACTTTCCTCTTAGTCGAGCCCAAGTTTAAAGAAATGTTCTTATGTGGCC	1951
DB	292	CTGAAGTAAGCAAAAGACTTTCCTCTTAGTCGAGCCCAAGTTTAAAGAAATGTTCTTATGTGGCC	233
QY	1952	CAGTGTGTTTCTTGATCTGATGCAAGCAAGAAACACACTGGGGCTTCTAGAACCAAGCAACTTG	2011
DB	232	CAGTGTGTTTCTTGATCTGATGCAAGCAAGAAACACACTGGGGCTTCTAGAACCAAGCAACTTG	173
QY	2012	GGAACTTAGACTCCCAAGCTGGACTATGGCTCTACTTTTCAGGCCACACTGGCTTAAGAAGAGT	2071
DB	172	GGAACTTAGACTCCCAAGCTGGACTATGGCTCTACTTTTCAGGCCACACTGGCTTAAGAAGAGT	113
QY	2072	TTTCAGAAAGAAAGTGGGGACAGACGAGAACTTTCACCTTCATATATTGTTATGATCCTTAAT	2131

QY 1648 CTCCATCGGTGTATCTCAGTGGATCCATTCTCTCAGGCTTGCTGCC 1697

Query Match 10.9%; Score 243; DB 14; Length 410;

double-stranded cDNA was ligated to Eco RI adaptors (Pharmacia), digested with Pac I and cloned into the Pac I and Eco RI sites of the modified pMT3 vector. Library went through one round of normalization. Library constructed by Bento Soares and M. Patricia Bonaldo.

BASE COUNT	83 a	63 c	47 g	94 t	2 others	ORIGIN
Query Match		10.7%	Score 238;	DB 9;	Length 289;	
Best Local Similarity		100.0%;	Pred. No. 7.6e-116;			
Matches 238; Conservative	0;	Mismatches	0;	Indels	0;	Gaps
QY 1995	TAGAAC	CAGGCA	ACTTGG	GAAC	TAGACTGCC	AAGCTGCTCTACTTTTCAGGCC 2054
DB 238	TAGAAC	CAGGCA	ACTTGG	GAAC	TAGACTGCC	AAGCTGCTCTACTTTTCAGGCC 179
QY 2055	ACAT	GGCTAA	GAAG	TTTT	CAGAA	AGAGTGGGACAGAGCAGAACTTTCACCTTCATAT 2114
DB 178	ACAT	GGCTAA	GAAG	TTTT	CAGAA	AGAGTGGGACAGAGCAGAACTTTCACCTTCATAT 119
QY 2115	ATTT	GTATGAT	CCCTAA	TGAATGC	ATAAATCTTA	AGTTGATGGTGATCAAAATGTAAATAC 2174
DB 118	ATTT	GTATGAT	CCCTAA	TGAATGC	ATAAATCTTA	AGTTGATGGTGATCAAAATGTAAATAC 59
QY 2175	TGTTTT	TAA	CAACTATG	ATTTGG	AAAAATCA	ATCAATGCATTAACATGTTGATAAAG 2232
DB 58	TGTTTT	TAA	CAACTATG	ATTTGG	AAAAATCA	ATCAATGCATTAACATGTTGATAAAG 1

RESULT	8
H58597	
LOCUS	
DEFINITION	H58597 422 bp mRNA linear EST 05-OCT-1995 yr06h06.r1 Soares fetal liver spleen INFLS Homo sapiens cDNA clone IMAGE:204539 5', mRNA sequence.

ACCESSION	H58597	GI:1011429
VERSION	H58597.1	
KEYWORDS	EST.	
SOURCE	human.	

ORGANISM	Homo sapiens
	Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
	Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.
REFERENCE	1 (bases 1 to 422)
AUTHORS	Hillier, L.G., Clark, N., Dubucque, T., Elliston, K., Hawkins, M., Holman, M., Hultman, M., Kucaba, T., Le, M., Lennon, G., Marra, M., Parsons, J., Rifkin, L., Rohlfing, T., Soares, M., Tan, F., Trevaskis, E., Waterston, R., Wallis, J., Wilson, R., Woldmann, P., and Willson, R.

TITLE	JOURNAL	COMMENT
THE WASNU-MERCK EST PROJECT	Unpublished (1995)	Contact: Wilson RK

Washington University School of Medicine
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Tel: 314 286 1800
Fax: 314 286 1810
Email: est@watson.wustl.edu
Insert Size: 1025
High quality sequence stops: 275
Source: IMAGE Consortium, LLNL
This clone is available royalty-free through LLNL ; contact the
IMAGE Consortium (info@image.llnl.gov) for further information.
Insert Length: 1025 Std Error: 0.00

FEATURES	
source	1. .422
Location/Qualifiers	
Seq primer: M13RPI	
High quality sequence stop: 275.	

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source
I. .422
/organism="Homo sapiens"
/db_xref="GBB:3773670"
/db_xref="taxon:9606"
/clone_lib="Soares fetal liver spleen INFLS"
/sex="male"
/dev_stage="20 week-post conception fetus"
/lab_host="ph10B (ampicillin resistant)"
/notes="Organ: Liver and Spleen; Vector: pT7T3D (Pharmacia

```

```
Best Local Similarity 99.7%; Pred. No. 1.7e-118;
Matches 293; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

1367 TAAATAGTAAATAAATAAATTAAAGCTGAAACTGCAACTTGTAAATCGTTAAAGAGTTA 1426
1 TAAATAGTAAATAAATAAATTAAAGCTGAAACTGCAACTTGTAAATCGTTAAAGAGTTA 60

1427 GTTTGAGTTGCTATCATGTCAAACGTGAAATGCTCTATTACTCACAGAGATAATCTAG 1486

1487 CTTTGAGCTTAAGAATTTTGAGCAGCTGGTATGTTTGGGAGACTGCTGAGTCAACCCCAAT 1546

121 CTTTGAGCTTAAGAATTTTGAGCAGGTGGTATGTTGGGAGACTGCTGAGTCACACCCAAT 180

1547 AGTTGCTTGATTGGCAGGAGTTGGAAGTGTGTGATCTCTGGGCACATTAGCCCTATGTGCAT 1606

181 AGTTGTTGATTTGGCAGGAGTTTGGAGTGTGTGATCTCTGGGCACATTAGCCCTATGTGCAT 240

1007 GCAGCATCTAAGTAATGATGTCGTTTGAATCACAGTATACGCTCCATCGCTGTC 294

RESULT 7
A034154/c

LOCUS AA034154 289 bp mRNA linear EST 09-MAY-1997
DEFINITION z106f10.s1 Soares_fetal_liver_spleen_INFLS_S1 Homo sapiens cDNA
clone IMAGE:430027 3', mRNA sequence.

ACCESSION AA034154
 ERSION AA034154.1 GI:1505982
 EYWORDS EST.
 human

SOURCE	ORGANISM	Human
	<i>Homo sapiens</i>	
	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.	

REFERENCE
AUTHORS
1 (bases 1 to 289)
Hillier, L., Lennon, G., Becker, M., Bonaldo, M.F., Chiapelli, B.,
Chisoe, S., Dietrich, N., DuBuque, T., Favello, A., Gish, W., Hawkins

M., M., B., Schellenberg v.
Hultman, M., Kucaba, T., Lacy, M., Le, N., Mardis, E., Moorhead,
Morris, M., Parsons, J., Parange, C., Rifkin, L., Rohlfing, T.,
Soares, M.B., Tan, F., Thierry-Mieg, J., Trevaskis, E.,
Watkinson P., Wilson R. and Maria M.

Wehlmann D

TITLE Generation and analysis of 280,000 human expressed sequence tags
JOURNAL Genome Res. 6 (9), 807-828 (1996)
MEDLINE 97044478

CONTACT: WILSON RK
WASHINGTON UNIVERSITY SCHOOL OF MEDICINE
4444 FOREST PARK PARKWAY, BOX 8501, ST. LOUIS, MO 63108

Tel: 314 286 1800
Fax: 314 286 1810
Email: estewartson.wustl.edu
Online access is available via a pay-at-the-counter service through ILLUM. For contact the

This clone is available royalty free through IMAGE, contact the
 IMAGE Consortium (info@image.llnl.gov) for further information.
 Insert Length: 432 Std Error: 0.00
 Seq primer: -40M13 fwd. from Amersham

High quality sequence stop: 202.

Location/Qualifiers

source 1. .289

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/organism="Homo sapiens"  
/db_xref="GDB:1329796"  
/db_xref="taxon:9606"
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/clonotype="IMAGE:430027"
/clonotype_lib="Soares_fetal_liver_spleen_1NFUS_S1"
/clonotype="male"
/clonotype="20 week post conception fetus"

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/dev_stage= 20 week post conception fetus
/lab_host="DH10B (ampicillin resistant)"
/note="Organ: Liver and Spleen; Vector: pT7T3D (Pharmacia
with a modified polylinker; Site 1: pac 1; Site 2: Eco RI

```

This is a subtracted version of the original Soares fetal liver spleen INFLS library. 1st strand cDNA was primed with a Pac I - oligo(dT) primer [5'

AACGGGAAGAAATTAATTAAGATCTTTTTTTTTTTTTTTT 3'],

source

COUNT

Every Mat

Best Local Pitches

2000 C 1

230 C

2060 61

170 G

2120 T

110 T

05
0817

3

LT 11
15

POSITION

NOISS

ION
WORDS

ICE ORGANISM

11

REFERENCE AUTHORS

Fig. 1.

JOURNAL
MENT

4

Mon Jun '2 09:42:06 2003

```

QY 1734 GTCATGCG 1741
|||||
Db 62 GTCATGCG 69

RESULT 15
BI764263 807 bp mRNA linear EST 25-SEP-2001
LOCUS 603045953f1 NIH_MGC_116 Homo sapiens cDNA clone IMAGE:5186388 5',
DEFINITION mRNA sequence.
ACCESSION BI764263
VERSION BI764263.1 GI:15755841
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 807)
NIH-MGC http://mgc.nci.nih.gov/.
National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished (1999)
Contact: Robert Strausberg, Ph.D.
Email: cgapbs-remail.nih.gov
Tissue Procurement: Life Technologies, Inc.
cDNA Library Preparation: Life Technologies, Inc.
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: LLM11465 row: 1 column: 13
High quality sequence stop: 805.
FEATURES
Source
1. .807
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:5186388"
/clone_lib="NIH_MGC_116"
/lab_host="DH10B"
/note="Organ: pooled colon, kidney, stomach; Vector:
pCMV-SPORT6; Site_1: NotI; Site_2: EcoRV (destroyed); RNA
source anonymous pool of 3 colons, age 26 yo male, 49 yo
female, 71 yo male colon; 46 yo male kidney, and pool of 2
stomachs, 62 yo male and 70 yo female. Library is
oligo-dr primed and directionally cloned (EcoRV site is
destroyed upon cloning). Average insert size 1.4 kb,
insert size range 1-3 kb. Library is normalized and
enriched for full-length clones and was constructed by C.
Gruber (Invitrogen). Research Genetics tracking code
023. Note: this is a NIH_MGC Library."
BASE COUNT 186 a 209 c 171 g 241 t
ORIGIN
Query Match 2.9%; Score 65; DB 13; Length 807;
Best Local Similarity 100.0%; Pred. No. 5.3e-23;
Matches 65; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 466 GTCATGCTGTGTGTTTAAAGCCAGGACGTCACCTTTGGGTGGTGTCACAGTGTG 525
|||||
Db 433 GTCATGCTGTGTGTTTAAAGCCAGGACGTCACCTTTGGGTGGTGTCACAGTGTG 492
|||||
QY 526 ATCAC 530
|||||
Db 493 ATCAC 497

Search completed: June 1, 2003, 22:46:29
Job time : 2856 secs

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